

# Implantable Medical Device with Multiple Electrode Lead

## Abstract

An implantable cardiac stimulator system or medical apparatus comprising an electrical device, a hermetically sealed case, a non-conducting plate in the case, and a plurality of electrical contacts on the plate. The system also has a lead having a plurality of electrodes, and a plurality of electrical conductors coupled to electrical contacts. The lead has a connector with a non-conducting sheet and electrical contacts protruding from the sheet, each of said contacts being connected to an electrical conductor. The contacts on the connector are arranged to contact one of said electrical contacts on the plate. Electrical contacts on sheet may comprise pins extending through the sheet, the pins comprising a bottom section and a flat section. The flat section extends above the sheet and is split by a slot, forming a first tab and a second tab, the second tab being longer than said first tab. One of the conductors of the lead is inserted into a slot of a pin. The lead connector has a compressible seal circumferentially surrounding a plurality of electrical contacts on the device and on the connector.